



NETAJI SUBHAS UNIVERSITY JAMSHEDPUR

(A Unit of Sitwanto Devi Mahila Kalyan Sansthan)


Estd. Under Jharkhand State Private University Act, 2018

Approved by UGC under Section 2(f), AICTE, PCI, BCI, NCTE, INC & JNRC

Ref. No. :

Date :

7.1.2 MEASURE INITIATIVE FOR ENERGY CONSERVATION


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Jamshedpur, Jharkhand


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ENERGY CONSERVATION ACTIVITIES

Energy conservation plays a crucial role in various aspects of society, including environmental sustainability, economic efficiency, and social responsibility. Here are some key roles of energy conservation.

Netaji Subhas University provides following activities for energy conservation:

- **Awareness Campaigns:** Initiatives to raise awareness among students, faculty, and staff about the importance of energy conservation and ways to reduce energy consumption.
- **Energy Audits:** Conducting regular energy audits to identify areas of high energy usage and opportunities for improvement.
- **Efficient Lighting Systems:** Retrofitting or replacing traditional lighting with energy-efficient alternatives such as LED lights.
- **HVAC Optimization:** Upgrading heating, ventilation, and air conditioning (HVAC) systems for improved energy efficiency.
- **Renewable Energy Integration:** Installing solar panels or other renewable energy systems to generate electricity on campus.
- **Building Management Systems (BMS):** Implementing BMS to monitor and control energy usage in buildings more effectively.
- **Education and Research:** Integrating energy conservation topics into the curriculum and supporting research projects focused on sustainable energy solutions.
- **Policy Development:** Developing and implementing policies and guidelines to promote energy conservation practices across campus.
- **Incentive Programs:** Offering incentives for individuals or departments that achieve significant energy savings.
- **Partnerships and Collaborations:** Collaborating with local utilities, government agencies, and industry partners to promote energy conservation and access resources for implementation.



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The University management has designed and constructed classrooms with ample *natural light* and effective *ventilation* to create an optimal learning environment for students.

The University promotes energy conservation by encouraging students and staff to “**switch off or unplug**” fans, lights, air conditioners, computers, printers, and other electrical equipment when they are **not in use**.

The University actively fosters awareness of environmental consciousness and sustainability among various stakeholders through the distribution of circulars and the organization of diverse awareness programs.

The University has organized **workshops for the manufacture and repair of LED bulbs** as a **Step Towards Eco-Friendly Lighting**.

The University has organized **awareness events** about the importance of conserving energy inside the University community and also in the adopted village.




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Programmes /Events initiated by the institution related to Energy Conservation:

| Date | Name of Event/Activities |
|---------------------|--|
| June 5th, 2019 | Enlightening Minds: Energy Conservation Program |
| June 28th, 2019 | One-Day Workshop: "Make Your Own LED" |
| 28th February, 2020 | Online Enlightening Awareness Programme on Energy Conservation |
| 5th June, 2020 | Online Debate Competition on "Role of Energy Conservation" |
| 28th February 2021 | Workshop on LED Bulb Making |
| 28th February 2022 | Awareness Class on Energy and Environmental Conservation |
| 14th December, 2022 | Celebration of National Energy Conservation Day |


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Title: Enlightening Minds: Energy Conservation Program

Date: June 5th, 2019

Location: Netaji Subhas University Auditorium


In a concerted effort to promote sustainable practices and address the pressing issue of energy conservation, Netaji Subhas University, in collaboration with the Department of Physics, organized an enlightening program on "Energy Conservation" on June 5th, 2019. The event took place in the esteemed Netaji Subhas University Auditorium and was graced by the esteemed presence of Dr. Ishita Ghosh, a renowned authority in the field of energy conservation.

The program commenced with a captivating keynote address by Dr. Ishita Ghosh, whose profound insights and expertise illuminated the audience on the critical importance of energy conservation in today's world. Dr. Ghosh's compelling discourse underscored the need for concerted efforts at individual, institutional, and societal levels to mitigate energy wastage and foster sustainable energy practices.


Following the keynote, a series of engaging presentations and interactive sessions unfolded, providing attendees with valuable knowledge and practical strategies to enhance energy efficiency in their daily lives and professional endeavours. Participants had the opportunity to delve into topics such as energy auditing, renewable energy technologies, and behavioural changes for energy conservation through insightful talks delivered by experts in the field.

Moreover, the program featured hands-on workshops and demonstrations aimed at showcasing innovative solutions and technologies for energy conservation. Attendees actively participated in simulations and exercises designed to deepen their understanding of energy-saving techniques and explore their applicability in real-world scenarios.

The program also served as a platform for fruitful discussions and knowledge exchange among attendees, including students, faculty members, researchers, and industry professionals. Through collaborative dialogues and networking opportunities, participants



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explored potential avenues for collaboration and synergies in advancing energy conservation initiatives.

As part of its commitment to sustainability and environmental stewardship, Netaji Subhas University announced several new initiatives and partnerships aimed at promoting energy conservation on campus and beyond. These initiatives encompassed educational outreach programs, campus-wide energy audits, infrastructure upgrades, and research collaborations with industry partners.

In retrospect, the Energy Conservation Program held at Netaji Subhas University on June 5th, 2019, served as a catalyst for raising awareness, fostering collaboration, and catalyzing action towards a more sustainable future.

By harnessing the collective efforts and ingenuity of its stakeholders, the university reaffirmed its commitment to being a beacon of environmental responsibility and innovation.



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Report on One-Day Workshop: "Make Your Own LED"

Date: June 28th, 2019

Location: Netaji Subhas University Auditorium

Introduction:


On June 28th, 2019, the Department of Diploma in Engineering and the NSS (National Service Scheme) unit of Netaji Subhas University joined forces to organize a stimulating one-day workshop titled "Make Your Own LED." The event aimed to foster hands-on learning and practical skills development among participants while promoting sustainable practices in the field of electronics. The workshop took place in the presence of Nazim Khan, Head of the Department of Diploma in Engineering.


Workshop Overview:

The workshop kicked off with an introduction by Nazim Khan, who emphasized the significance of such practical learning experiences in complementing theoretical knowledge. Participants were then briefed on the agenda for the day, which included interactive sessions, demonstrations, and practical exercises focused on assembling and programming LED circuits.

Sessions and Activities:

1. **Theoretical Session:** The workshop commenced with a brief theoretical overview of LED technology, circuitry, and principles of operation. Participants were introduced to basic concepts in electronics, laying the foundation for the hands-on activities that followed.
2. **Practical Demonstrations:** Expert facilitators demonstrated the process of assembling LED circuits, providing step-by-step instructions and guidance to


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participants. Attendees had the opportunity to observe demonstrations of soldering techniques, component identification, and circuit testing.

3. **Hands-on Workshop:** Participants actively engaged in assembling their own LED circuits under the guidance of experienced mentors. Working in small groups, they applied their theoretical knowledge to construct functional LED setups, gaining valuable practical experience in electronics prototyping.
4. **Programming Session:** In addition to circuit assembly, participants were introduced to programming microcontrollers to control LED behavior. They learned how to write and upload code to microcontroller boards, enabling them to customize LED patterns and functionalities.
5. **Project Showcase:** The workshop culminated in a project showcase session, where participants presented their completed LED circuits and demonstrated their functionalities. This session provided an opportunity for participants to share their experiences, challenges, and insights gained throughout the workshop.

The "Make Your Own LED" workshop received enthusiastic participation from students, faculty, and staff alike. Participants acquired practical skills in electronics assembly, soldering, circuit troubleshooting, and programming, empowering them to pursue further exploration and innovation in the field of electronics.

The workshop not only facilitated skill development but also fostered a sense of camaraderie and collaboration among participants. By bringing together individuals from diverse backgrounds and skill levels, the event promoted knowledge sharing, teamwork, and mutual learning.


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**Event Title: Online Enlightening Awareness Programme on Energy
Conservation**

Date: 28th February, 2020

Organizer: Department of Zoology

Resource Person: Dr. Kishore Ozha


Venue: Online Platform

The Department of Zoology organized an Online Enlightening Awareness Programme on Energy Conservation on 28th February, 2020. The program aimed to educate and create awareness among students about the importance of energy conservation and sustainable practices.

Dr. Kishore Ozha, a renowned expert in the field of energy conservation, graced the event as the resource person. His expertise and insights greatly contributed to the success of the program. Through his engaging presentation, Dr. Ozha shed light on various aspects of energy conservation, including its significance in mitigating environmental degradation and addressing climate change.

The program covered a wide range of topics related to energy conservation, including:

1. Understanding the concept of energy conservation and its relevance in today's world.
2. Exploring renewable energy sources and their role in sustainable development.
3. Discussing energy-efficient practices in daily life, such as reducing electricity consumption, minimizing wastage, and adopting eco-friendly technologies.
4. Highlighting the impact of energy conservation on biodiversity conservation and ecosystem health.



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Dr. Ozha's comprehensive presentation was followed by an interactive Q&A session, allowing students to seek clarifications and delve deeper into the subject matter. Participants actively engaged in discussions, sharing their perspectives and insights on energy conservation.

Overall, the Online Enlightening Awareness Programme on Energy Conservation proved to be an enlightening and enriching experience for all participants. The event not only fostered awareness but also inspired students to take proactive measures towards energy conservation in their personal and professional lives.

The Department of Zoology expresses its gratitude to Dr. Kishore Ozha for his invaluable contribution to the program and extends its appreciation to all participants for their active involvement and enthusiasm.


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Event Title: Online Debate Competition on "Role of Energy Conservation"

Date: 5th June, 2020

Organizer: Energy Conservation Club

Venue: Virtual Platform


On 5th June, 2020, the Energy Conservation Club of Netaji Subhas University organized an Online Debate Competition on the topic "Role of Energy Conservation." The event aimed to provide a platform for students to express their views, exchange ideas, and promote awareness about the importance of energy conservation in sustainable development.

The competition witnessed enthusiastic participation from students across various disciplines, showcasing their knowledge and debating skills on the subject matter. Participants engaged in thought-provoking discussions, highlighting diverse perspectives on the role of energy conservation in addressing global challenges such as climate change, environmental degradation, and energy security.

The debate covered a wide range of topics related to energy conservation, including:

1. The significance of energy conservation in reducing greenhouse gas emissions and combating climate change.
2. The role of renewable energy sources in promoting sustainable development and reducing dependency on fossil fuels.
3. Policy measures and initiatives to incentivize energy-efficient practices and promote renewable energy adoption.
4. The impact of energy conservation on economic growth, energy security, and social equity.


Participants presented well-researched arguments, supported by factual evidence and data, demonstrating a deep understanding of the complexities surrounding energy conservation issues. The debate fostered critical thinking, intellectual discourse, and awareness among students, encouraging them to become proactive agents of change in promoting energy sustainability.



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Judges evaluated the performances based on criteria such as content relevance, argument coherence, persuasiveness, and overall presentation. After careful deliberation, winners were announced, acknowledging their outstanding contributions to the debate competition.

The Online Debate Competition on "Role of Energy Conservation" proved to be a resounding success, fostering intellectual engagement and stimulating dialogue on pressing environmental issues. The Energy Conservation Club extends its appreciation to all participants for their active involvement and congratulates the winners for their exemplary performances.


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Event Title: Workshop on LED Bulb Making

Date: 28th February 2021

Organizers: Department of Diploma in Engineering, in association with NSS Unit

Venue: Multipurpose Hall

The Department of Diploma in Engineering, in collaboration with the National Service Scheme (NSS) Unit, organized a Workshop on LED Bulb Making on 28th February 2021. The event aimed to equip students with practical knowledge and skills in the field of LED bulb assembly and promote sustainable practices in energy consumption.

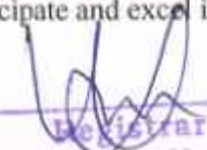
The workshop witnessed active participation from students and faculty members, who engaged in hands-on learning experiences under the guidance of experts in the field. Mr. Raju Bhagat, the NSS Program Officer, and Mr. Syed Ahsan Shabbir, Head of the Department of Diploma, graced the event with their presence and provided valuable insights and encouragement to the participants.

The workshop sessions covered various aspects of LED bulb making, including:

1. Introduction to LED technology and its advantages over traditional lighting systems.
2. Demonstration of the components required for LED bulb assembly and their functions.
3. Step-by-step guidance on the assembly process, including soldering, wiring, and casing.
4. Safety measures and precautions to be followed during the assembly process.
5. Discussion on the environmental benefits of LED bulbs, such as energy efficiency and reduced carbon emissions.

Participants actively engaged in the practical sessions, gaining hands-on experience in assembling LED bulbs from scratch. The interactive nature of the workshop facilitated peer learning and collaboration, allowing participants to exchange ideas and troubleshoot challenges together.

The presence of Mr. Raju Bhagat and Mr. Syed Ahsan Shabbir added significance to the event, with their encouragement and support motivating the participants to actively participate and excel in the workshop activities.


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Overall, the Workshop on LED Bulb Making was a resounding success, providing participants with valuable skills and knowledge in sustainable energy practices. The Department of Diploma in Engineering expresses its gratitude to all participants, organizers, and facilitators for their contributions to making the event a memorable and enriching experience.



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Event Title: Awareness Class on Energy and Environmental Conservation

Date: 28th February 2022

Organizers: Department of Education, Netaji Subhas University Jamshedpur

Venue: Various Government Schools, Jamshedpur

On 28th February 2022, the Faculty members of the Department of Education conducted an Awareness Class on Energy Conservation Measures and Environmental Conservation in various government schools across Jamshedpur. The objective of the class was to educate students about the importance of conserving energy and preserving the environment for a sustainable future.


The awareness class was led by esteemed faculty members, namely Dr. Jyoti Swain, Dr. Raj Kumar Nayak, Dr. Jay Prakash, and Dr. Shakti. Their collective expertise and dedication to environmental education ensured the success of the initiative.


The class covered a wide range of topics related to energy conservation and environmental preservation, including:

1. Understanding the concept of energy conservation and its significance in reducing carbon footprint and mitigating climate change.
2. Exploring practical measures for conserving energy in daily life, such as reducing electricity consumption, optimizing water usage, and promoting sustainable transportation options.
3. Raising awareness about the importance of environmental conservation, including biodiversity preservation, waste management, and pollution control.
4. Encouraging students to adopt eco-friendly habits and participate in community-based environmental initiatives.

The faculty members employed interactive teaching methods, including presentations, group discussions, and hands-on activities, to actively engage the students and foster a deeper understanding of the subject matter. The sessions were designed to be informative, engaging, and inspiring, aiming to empower students to become stewards of the environment.


The awareness class received positive feedback from both students and school authorities, highlighting its effectiveness in creating awareness and fostering a sense of responsibility


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towards environmental conservation. The collaborative efforts of the faculty members and the enthusiastic participation of the students contributed to the success of the initiative.

The Department of Education extends its gratitude to the faculty members, school authorities, and students for their active involvement and support in organizing the Awareness Class on Energy and Environmental Conservation. The department remains committed to promoting environmental education and fostering a culture of sustainability in the community.


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Event Title: Program on "Sensor-based Energy Conservation and its Future Prospects"

Date: 22nd August 2022

Organizers: Department of Electrical and Electronics Engineering (EEE)

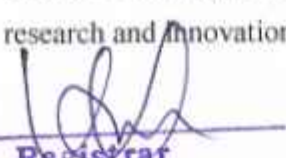
Venue: EEE Lab

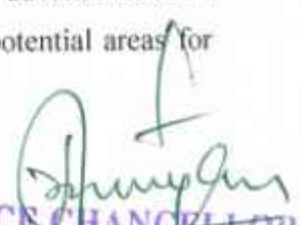
On 22nd August 2022, the Department of Electrical and Electronics Engineering (EEE) organized a program focusing on "Sensor-based Energy Conservation and its Future Prospects." The event aimed to enlighten students about the innovative use of sensors in energy conservation and explore the potential applications and future developments in this field.

The program was attended by students of the Department of EEE, along with faculty members and staff. Dr. Anumeha, Head of the Department, graced the occasion with her presence and provided valuable insights and guidance throughout the program.

The program featured presentations, discussions, and demonstrations, covering various aspects of sensor-based energy conservation, including:

1. Introduction to sensor technology and its role in energy conservation: The session provided an overview of sensor technology, its principles, and applications in energy monitoring, control, and optimization.
2. Sensor-based energy management systems: The program delved into the development and implementation of sensor-based energy management systems, highlighting their effectiveness in optimizing energy usage, reducing wastage, and enhancing efficiency.
3. Case studies and real-world applications: Participants were presented with case studies and examples showcasing the practical applications of sensor-based energy conservation in different sectors, such as smart buildings, industrial automation, and renewable energy systems.
4. Future prospects and emerging trends: The program discussed the future prospects and emerging trends in sensor-based energy conservation, including advancements in sensor technology, integration with Internet of Things (IoT), and potential areas for research and innovation.


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The interactive nature of the program encouraged active participation and engagement from the students, fostering a conducive learning environment. Participants had the opportunity to interact with experts in the field, ask questions, and exchange ideas on the latest developments and challenges in sensor-based energy conservation.

The program concluded with a vote of thanks to Dr. Anumeha for her support and guidance, as well as to all participants for their active participation and contributions to the program's success.

The Department of Electrical and Electronics Engineering expresses its gratitude to everyone involved in organizing and participating in the program on "Sensor-based Energy Conservation and its Future Prospects." The department remains committed to promoting knowledge and awareness in emerging technologies and their applications in energy conservation and sustainability.



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Event Title: Celebration of National Energy Conservation Day

Date: 14th December, 2022

Organizers: Energy Conservation Club

Venue: Netaji Subhas University Auditorium

On 14th December, Netaji Subhas University celebrated National Energy Conservation Day with great enthusiasm and zeal. The event, held in the university auditorium, aimed to raise awareness about the importance of energy conservation and promote sustainable practices among students and faculty members.


The celebration featured various activities organized to engage and educate participants on energy conservation measures. These activities included an essay competition, a debate competition, and a poster competition, each focusing on different aspects of energy conservation and sustainability.

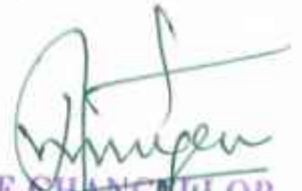
The essay competition provided students with an opportunity to express their thoughts and ideas on topics related to energy conservation, such as renewable energy sources, energy-efficient technologies, and the role of youth in promoting energy conservation.

The debate competition encouraged participants to engage in constructive discussions and present arguments for and against various energy conservation policies and initiatives. It provided a platform for students to showcase their debating skills and critical thinking abilities while addressing pressing environmental issues.

The poster competition allowed students to unleash their creativity and visually communicate key messages about energy conservation through innovative and eye-catching posters. Participants showcased their artistic talents while raising awareness about the importance of adopting energy-efficient practices in everyday life.


The event was graced by the presence of Honourable Pro Vice Chancellor, Dr. Acharya Rishi Ranjan, and Honourable Registrar, Mr. Nagendra Kumar Singh, who provided their valuable insights and encouragement to the participants. Their presence added significance to the event and motivated students to actively participate and excel in the competitions.


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The celebration of National Energy Conservation Day served as a platform to inspire and empower students to become responsible stewards of the environment. It reinforced the university's commitment to promoting sustainability and fostering a culture of energy conservation among its academic community.

The organizers extend their gratitude to all participants, faculty members, and dignitaries for their active involvement and support in making the event a grand success. The celebration of National Energy Conservation Day was a testament to the university's dedication to creating a greener and more sustainable future for generations to come.


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